

OBSTRUCTION DATA SHEET

ODS 6357
WINDOW ROCK AIRPORT
WINDOW ROCK, ARIZONA

DIGITIZED FROM

OC 6357
SURVEYED APRIL 1988
1ST EDITION



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THE NATIONAL OCEAN SERVICE
U.S. DEPARTMENT OF COMMERCE
FOR THE FEDERAL AVIATION ADMINISTRATION

OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA Nr. 405, "Specifications - Airport Obstruction Chart and Related Products."

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS (and OC) depict a representation of objects that existed at the time of the OC field survey.

ODS information is arranged as follows:

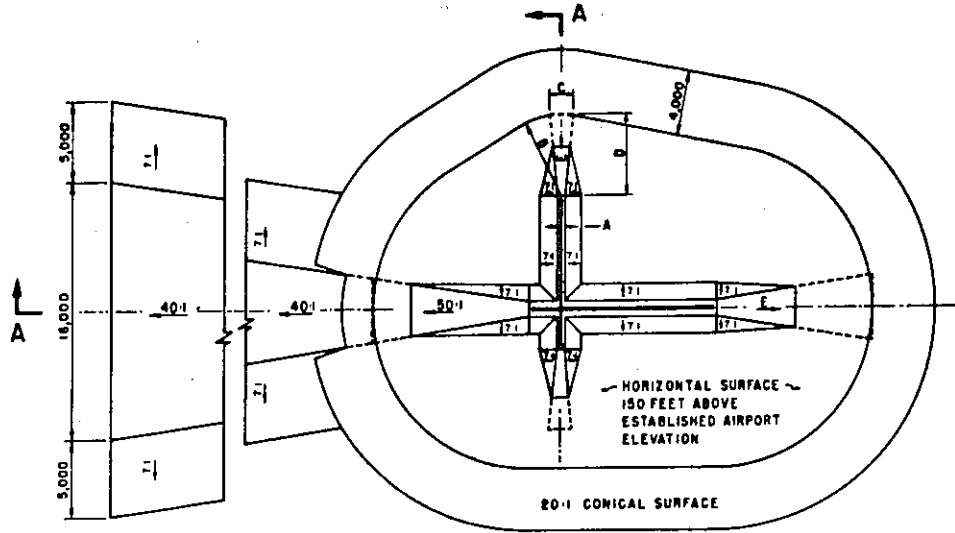
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the physical end and threshold of Runway 9R. Objects in the Runway 27L approach or primary are listed with Runway 27L. (Objects in the common 9R/27L primary area are listed with both runways.)
2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows (see footnote 2 on page 3):

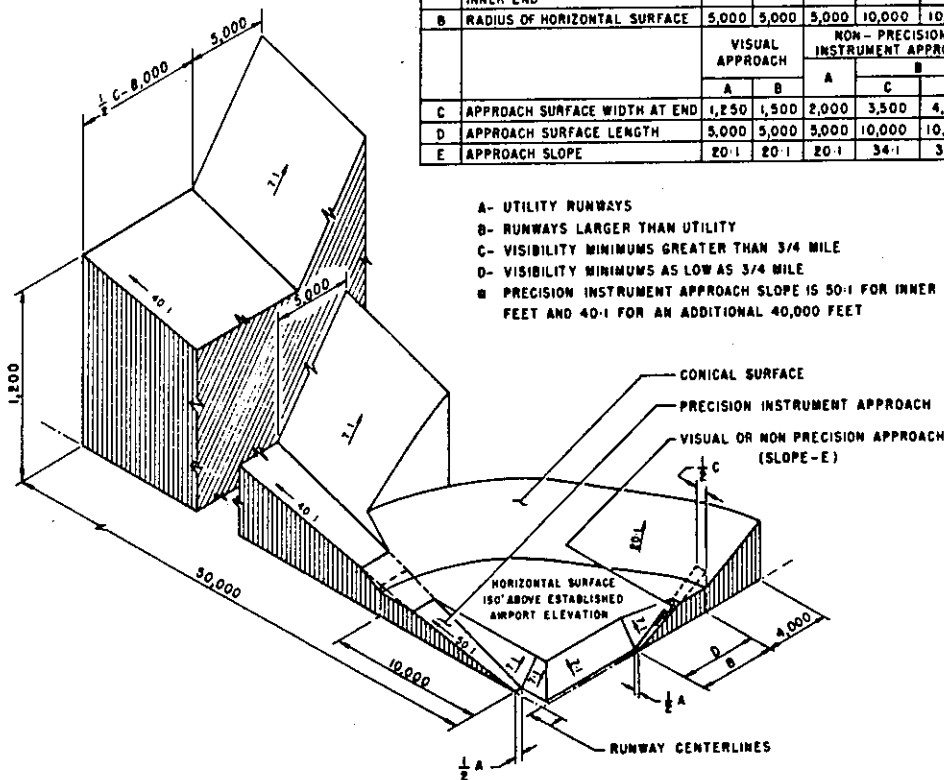
A(V) Utility runway - visual approach only
 A(NP) Utility runway - nonprecision instrument approach
 B(V) Nonutility runway - visual approach only
 C Nonutility runway - nonprecision instrument approach with
 visibility minimums greater than 3/4 mile
 D Nonutility runway - nonprecision instrument approach with
 visibility minimums as low as 3/4 mile
 PIR Precision instrument runway
 SUPLC ... Supplemental C underlying a B(V)

FAR-77 imaginary surface dimensions are defined on page 2 of this report.

Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
C	APPROACH SURFACE WIDTH AT END	VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	C	D	
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	*
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	*



- A- UTILITY RUNWAYS
- B- RUNWAYS LARGER THAN UTILITY
- C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
- D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
- * PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET

ISOMETRIC VIEW OF SECTION A-A

FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

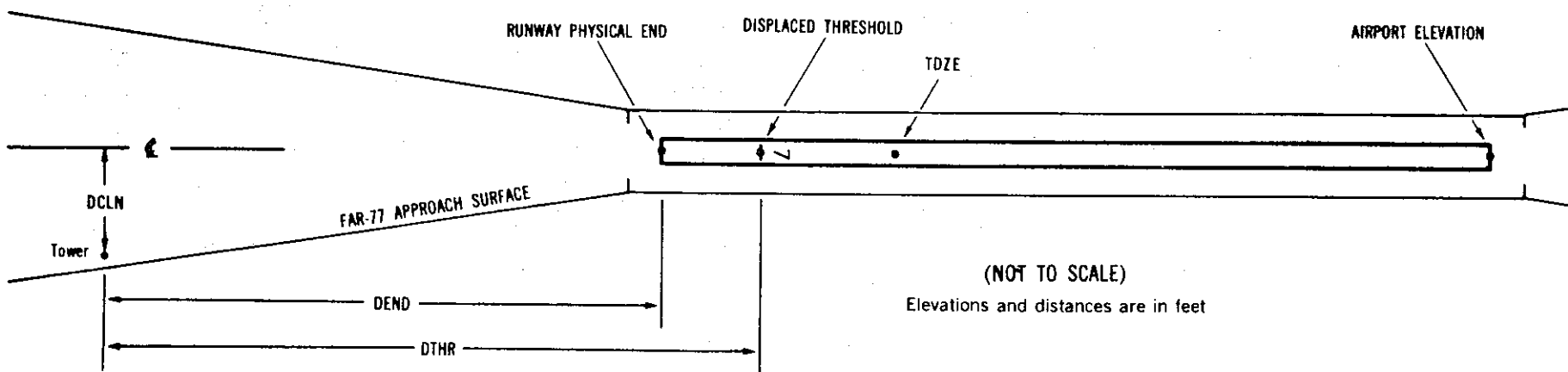
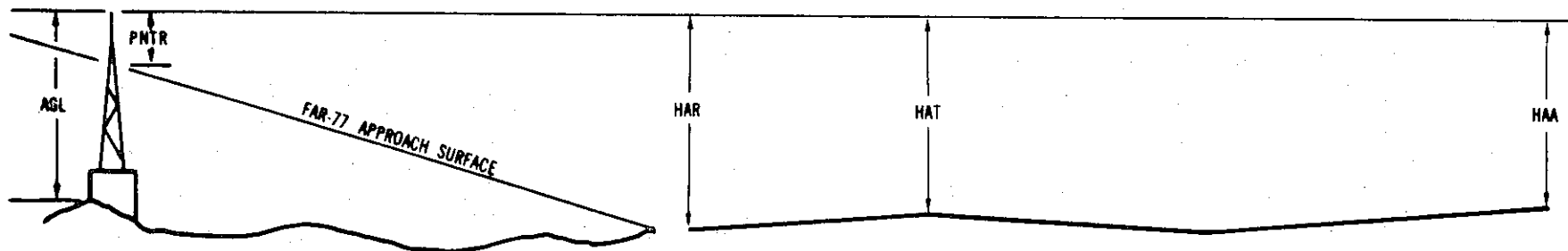
OC XXXX

AIRPORT ELEVATION XXXX

X¹ X² XXXX/XXXX³ XXXXXX.XXX⁴ XXXXXXXX.XXX⁴ XXXXXXXX⁵ XXXX/XXXX⁶ XXXXXX.XXX⁷ XXXXXXXX.XXX⁷

OBJECT LAT LONG A⁸ ELEV⁹ AGL¹⁰ HAR¹¹ HAT¹¹ HAA¹¹ DEND¹² DTHR¹² DCLN¹² PNTR¹³

XXXXXXXXXXXX	XXXXXX.XXX	XXXXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXXX	XXXXXX.XXX	XXXXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX



EXPLANATION OF FOOTNOTES

- 1 Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary area of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.
- 2 For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed.)
- 3 Reference runway approach physical end elevation/touchdown zone elevation
- 4 Latitude and longitude of reference runway approach physical end
- 5 Reference runway geodetic azimuth reckoned clockwise from south
- 6 Reference runway displaced threshold elevation/touchdown zone elevation
- 7 Latitude and longitude of reference runway displaced threshold
- 8 Accuracy Code: Horizontal Vertical
 1 = 20 A = 2
 2 = 40 B = 5
 C = 20
- 9 Mean Sea Level (MSL) elevation at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.
- 10 Height above ground level (AGL). AGLs are provided only for those objects appearing on the OC that are equal to, or greater than, 200 feet AGL. AGL accuracy is ± 10 feet.
- 11 HAA - Height above airport
 HAR - Height above reference runway approach physical end
 HAT - Height above reference runway touchdown zone elevation
- 12 DEND - Distance along reference runway centerline from point perpendicular to object to reference runway approach physical end
 DTHR - Distance along reference runway centerline from point perpendicular to object to reference runway threshold
 DCLN - Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft.
- A negative value for DEND or DTHR indicates object is in primary area on roll-out side of zero distance point.
- 13 PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

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AIRPORT ELEVATION 6739

2 C 6698/6716 353838.695N 1090423.962W 2140309

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	353936.93	1090333.57	1A	6749		51	33	10	-7207		148R	10
FENCE	353937.63	1090335.07	1A	6743		45	27	4	-7197		6R	4
BUSH	353937.11	1090336.68	1A	6745		47	29	6	-7078		75L	6
BUSH	353937.64	1090338.65	1A	6745		47	29	6	-7032		239L	6
BUSH	353934.24	1090339.70	1A	6745		47	29	6	-6699		118L	8
BUSH	353926.34	1090346.01	1A	6737		39	21	-2	-5745		103L	5
BUSH	353921.10	1090349.99	1A	6739		41	23	0	-5122		78L	11
BUSH	353917.58	1090348.68	1A	6733		35	17	-6	-4888		210R	6
BUSH	353915.57	1090354.37	1A	6730		32	14	-9	-4456		65L	6
BUSH	353912.00	1090353.62	1A	6730		32	14	-9	-4192		189R	7
BUSH	353907.00	1090402.35	1A	6726		28	10	-13	-3370		125L	8
BUSH	353903.81	1090401.44	1A	6722		24	6	-17	-3145		118R	6
BUSH	353857.15	1090409.71	1A	6718		20	2	-21	-2205		70L	7
BUSH	353851.63	1090411.42	1A	6715		17	-1	-24	-1663		125R	7
BUSH	353852.35	1090413.78	1A	6713		15	-3	-26	-1615		77L	6
BUSH	353849.26	1090416.43	1A	6712		14	-4	-27	-1233		83L	7
BUSH	353843.93	1090421.15	1A	6707		9	-9	-32	-569		104L	6
BUSH	353841.51	1090420.06	1A	6706		8	-10	-33	-416		108R	6
BUSH	353837.84	1090426.44	1A	6702		4	-14	-37	186		121L	4
FENCE POST	353836.85	1090424.99	1A	6702		4	-14	-37	202		34R	4
BUSH	353836.19	1090424.03	1A	6703		5	-13	-36	213		137R	5
BUSH	353833.12	1090425.48	1A	6712		14	-4	-27	537		211R	4
GROUND	353831.42	1090427.01	1A	6714		16	-2	-25	750		203R	0
TREE	353828.76	1090426.61	1A	6736		38	20	-3	954		382R	16
TREE	353826.10	1090429.42	1A	6733		35	17	-6	1307		340R	2

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AIRPORT ELEVATION 6739

20 C 6739/6739 353936.036N 1090336.476W 0340336

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	353836.19	1090424.03	1A	6703		-36	-36	-36	-7211		137L	5
FENCE POST	353836.85	1090424.99	1A	6702		-37	-37	-37	-7200		34L	4
BUSH	353837.84	1090426.44	1A	6702		-37	-37	-37	-7184		121R	4
BUSH	353841.51	1090420.06	1A	6706		-33	-33	-33	-6583		108L	6
BUSH	353843.93	1090421.15	1A	6707		-32	-32	-32	-6429		104R	6
BUSH	353849.26	1090416.43	1A	6712		-27	-27	-27	-5765		83R	7
BUSH	353852.35	1090413.78	1A	6713		-26	-26	-26	-5384		77R	6
BUSH	353851.63	1090411.42	1A	6715		-24	-24	-24	-5335		125L	7
BUSH	353857.15	1090409.71	1A	6718		-21	-21	-21	-4794		70R	7
BUSH	353903.81	1090401.44	1A	6722		-17	-17	-17	-3853		118L	6
BUSH	353907.00	1090402.35	1A	6726		-13	-13	-13	-3628		125R	8
BUSH	353912.00	1090353.62	1A	6730		-9	-9	-9	-2806		189L	7
BUSH	353915.57	1090354.37	1A	6730		-9	-9	-9	-2542		65R	6
BUSH	353917.58	1090348.68	1A	6733		-6	-6	-6	-2110		210L	6
BUSH	353921.10	1090349.99	1A	6739		0	0	0	-1876		78R	11
BUSH	353926.34	1090346.01	1A	6737		-2	-2	-2	-1253		103R	5
BUSH	353934.24	1090339.70	1A	6745		6	6	6	-300		118R	8
BUSH	353937.64	1090338.65	1A	6745		6	6	6	34		239R	6
BUSH	353937.11	1090336.68	1A	6745		6	6	6	80		75R	6
FENCE	353937.63	1090335.07	1A	6743		4	4	4	199		6L	4
BUSH	353936.93	1090333.57	1A	6749		10	10	10	209		148L	10
BUSH	353939.53	1090333.87	1A	6750		11	11	11	413		19R	5
POLE	353942.18	1090326.37	1A	6770		31	31	31	982		343L	8
TREE	353949.13	1090331.26	1A	6796		57	57	57	1338		385R	24
SIGN	353946.76	1090326.02	1A	6777		38	38	38	1382		107L	3
POLE	353946.31	1090323.72	1A	6788		49	49	49	1450		290L	12
POLE	353949.14	1090327.31	1A	6785		46	46	46	1521		116R	7
TREE	353951.22	1090329.65	1A	6806		67	67	67	1587		393R	26
SIGN	353949.34	1090322.16	1A	6802		63	63	63	1776		226L	17
FLAGPOLE	353949.51	1090319.10	1A	6799		60	60	60	1932		424L	9
POLE	354000.44	1090314.94	1A	6824		85	85	85	3040		90L	1
POLE	354006.09	1090318.29	1A	6840		101	101	101	3358		459R	8
TREE	354008.39	1090318.66	1A	6850		111	111	111	3534		614R	13

OC6357 File Continued from Previous Page

AIRPORT ELEVATION 6739

20 C 6739/6739 353936.036N 1090336.476W 0340336

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	354010.98	1090317.53	1A	6871		132	132	132	3803		684R	26
POLE	354010.91	1090312.14	1A	6874		135	135	135	4046		311R	22
POLE	354007.81	1090303.66	1A	6856		117	117	117	4179		444L	0
POLE	354011.29	1090306.44	1A	6873		134	134	134	4341		57L	12
TREE	354017.34	1090311.42	1A	6888		149	149	149	4618		626R	19
POLE	354017.46	1090258.59	1A	6922		183	183	183	5221		244L	35
ROCK	354023.89	1090254.69	1A	7024		285	285	285	5940		146L	116
ROCK	354027.16	1090255.02	1A	7071		332	332	332	6198		61R	156
ROCK	354030.40	1090254.62	1A	7050		311	311	311	6488		218R	126
ROCK	354043.09	1090252.10	1A	7026		287	287	287	7668		764R	67
ROCK	354048.15	1090254.10	1A	7029		290	290	290	7998		1188R	61
TREE	354047.90	1090217.57	1A	7340		601	601	601	9666		1323L	323

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AIRPORT ELEVATION 6739

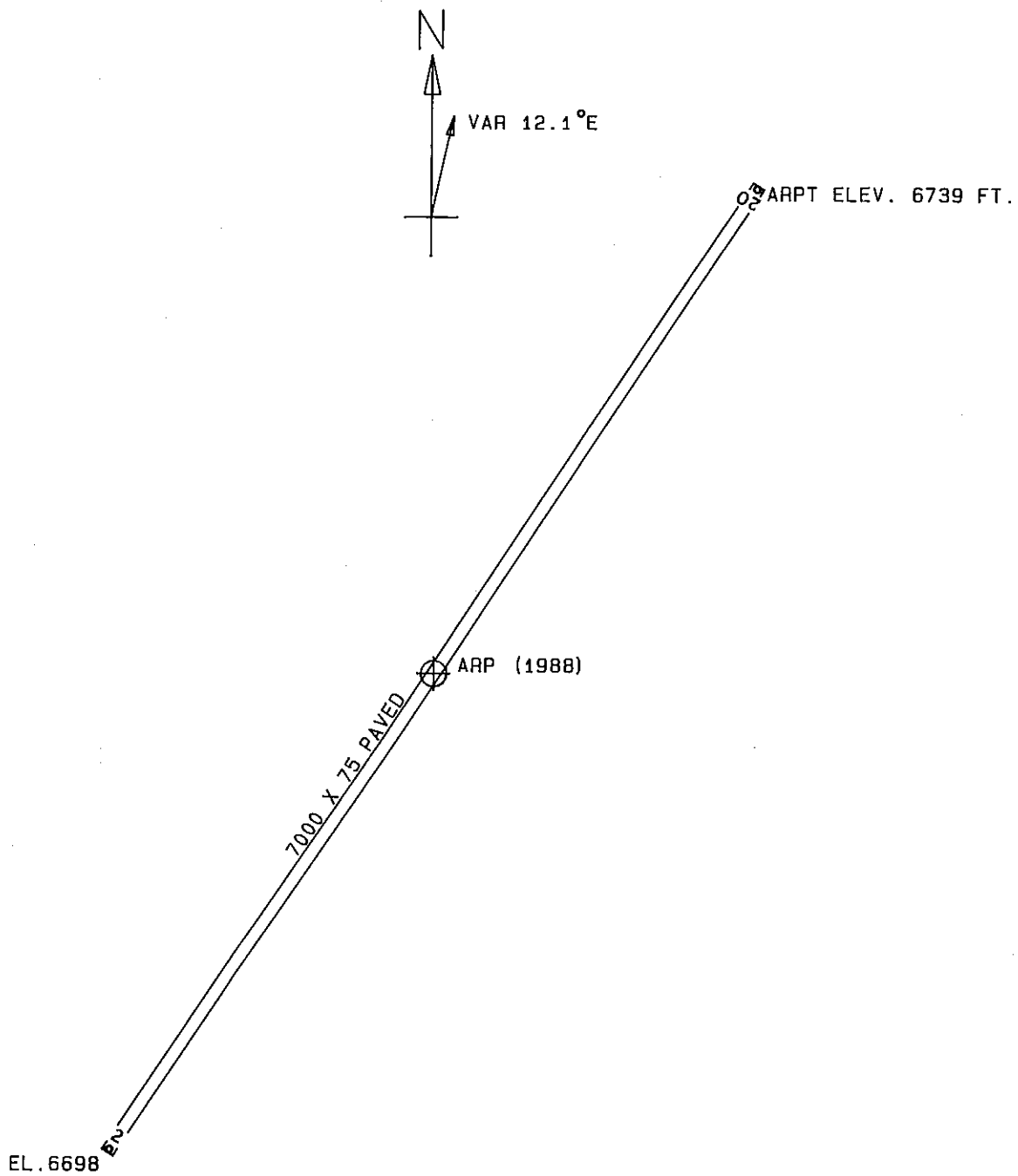
ARP 353907.366N 1090400.221W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
LIGHTED WINDSOCK	353907.57	1090354.13	1A	6740		1	75 35	503
BUSH	353923.94	1090350.49	1A	6735		-4	13 30	1858
POLE	353925.22	1090409.42	1B	6832		93	325 5	1958
TREE	353906.91	1090323.28	1B	6958		219	78 46	3049
TREE	353850.84	1090328.75	1B	6990		251	110 39	3089
TREE	353916.00	1090320.48	1B	6941		202	63 0	3394
OL AIRPORT BEACON	353931.95	1090326.25	1A	6826		87	36 20	3747
WINDSOCK ON HANGAR	353936.09	1090327.54	1A	6766		27	30 47	3964
LIGHT POLE	353937.65	1090329.04	1A	6772		33	27 57	4000
TREE	353857.31	1090311.82	1B	7165		426	92 11	4122
TREE	353847.39	1090315.82	1B	7184		445	106 45	4184
TREE	353933.24	1090315.50	1B	6909		170	42 34	4524
TREE	353826.92	1090424.64	1A	6768		29	194 9	4559
TREE	353826.35	1090427.14	1A	6753		14	196 5	4705
TREE	353909.62	1090302.46	1B	7108		369	75 9	4772
ROCK	353823.67	1090337.20	1B	7010		271	144 37	4809
POLE	353955.49	1090331.30	1A	6823		84	14 1	5420
TREE	353815.97	1090427.30	1A	6804		65	191 10	5657
ROCK	353834.01	1090254.05	1B	7246		507	109 36	6419
TREE	353845.43	1090244.42	1B	7218		479	97 25	6638
TREE	353811.09	1090315.93	1B	7253		514	135 11	6764
ROCK	354001.78	1090300.19	1A	6926		187	29 54	7403
TREE	353923.48	1090225.44	1B	6919		180	66 8	7990
TREE	353944.83	1090537.71	1B	6922		183	283 7	8893
POLE	353807.94	1090233.95	1B	7114		375	118 3	9317
TREE	353916.93	1090200.95	1B	7223		484	72 17	9891
POLE	354002.11	1090220.73	1B	7262		523	43 54	9903
ANTENNA ON TANK	354049.25	1090402.53	1B	6900		161	346 50	10304
POLE	354048.60	1090330.92	1B	6893		154	1 11	10518
POLE	354051.62	1090336.13	1B	6999		260	358 35	10727
TREE	353824.12	1090158.65	2C	6980		241	101 26	10946
ANTENNA ON OL MICROWAVE T	354016.55	1090217.68	1B	7316		577	38 19	10979
TREE	353932.62	1090150.19	1B	7249		510	64 30	11031

AIRPORT ELEVATION 6739

ARP 353907.366N 1090400.221W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
ROCK	354046.01	1090302.12	1B	6991		252	13 34	11067
TREE	354054.61	1090331.29	1B	6904		165	0 19	11103
TREE	353755.78	1090216.57	2C	7157		418	118 7	11206
TREE	354058.69	1090338.82	1B	6894		155	356 49	11394
ROCK	354051.44	1090301.32	1B	7006		267	12 41	11591
ROCK	354058.21	1090255.52	1B	7109		370	13 22	12415
ROCK	354101.80	1090255.54	1B	7127		388	12 39	12742
ANTENNA ON OL MICROWAVE T	353923.78	1090637.58	2A	7127	273	388	265 12	13092
ROCK	354106.81	1090256.11	1B	7139		400	11 33	13185
TREE	354053.03	1090214.80	2C	7338		599	27 3	13778
GROUND	353902.32	1090112.35	2C	7040		301	80 0	13864
ROD ON OL RADIO TOWER	353841.03	1090111.96	2A	7039	219	300	88 45	14141
GROUND	353721.76	1090202.91	2C	7130		391	125 41	14415
TREE	354100.58	1090213.62	2C	7346		607	25 26	14437
TREE	354017.04	1090125.84	2C	7290		551	48 57	14558
TREE	354110.82	1090223.17	2C	7351		612	20 34	14831
TREE	354024.65	1090117.67	2C	7308		569	47 40	15523
TREE	354031.01	1090109.57	2C	7322		583	46 54	16427
TREE	353624.25	1090420.70	2C	7081		342	173 45	16580
TREE	353622.16	1090408.05	2C	7152		413	170 7	16717
GROUND	354147.49	1090258.03	2C	7110		371	5 29	16984
GROUND	354150.25	1090302.90	2C	7120		381	3 55	17136
POLE	354035.18	1090101.31	2C	7299		560	46 52	17228



TOUCHDOWN ZONE RUNWAY ELEVATION	
2	6716
20	6739

WINDOW ROCK AIRPORT
 WINDOW ROCK, ARIZONA
 (NOT TO SCALE)